

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation ³	Relevant SFQ Test	Relevant EGS Test ⁴	Relevant Operations Procedure/Test ⁵	Operations Scenario Environment ⁶	Number of Operations/day ⁷	Remarks
1	Generation of daily/weekly operations plans		EGS5, EGS9, EGS11		System Management	Central SMC Function	No conflict resolution with externals or resources.
2	Production Planning, resource planning, (Cross DAAC Plan coordination)		EGS5, EGS9, EGS11		Science operations, System Stress.	Once or as needed.	Uses the active plan, develops production schedules, notes resource changes, checks cross DAAC dependencies.
3	Ingest L7 L0R, Metadata, and Browse		EGS5, EGS11		Science operations	Variable amounts come at different times, some 35 scene subintervals, some single average 8.5 scenes, 22 subinterval min. 41 max. 30 average.	140 GB, 250 scenes maximum in one day.
4	Archive and run query that all scenes in DAN have been archived.		EGS5, EGS11		Science operations	Varies receipt of data matches data files sent.	
5	L7 L0R Daily Distribution to IAS		EGS5, EGS11		Science operations	As many as 10 images per day for verifying instrument operation.	
6	L7 CPF Daily Distribution		EGS5, EGS11		Science	Variable – As	

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation ³	Relevant SFQ Test	Relevant EGS Test ⁴	Relevant Operations Procedure/Test ⁵	Operations Scenario Environment ⁶	Number of Operations/day ⁷	Remarks
	from IAS – Calibration from IAS.				operations	data made available	
7	L0R To Users Requests/Distribution		EGS5, EGS11		:User Services	On Demand	What is the billing work around?
8	L7 Billing and accounting		EGS5		System Management		
9	Receive e-mail on shipping of D3 tapes (ASTER)		EGS9, EGS11		System Operations		
10	Verify shipping notice agrees with tape DAN		EGS9, EGS11		System operations		
11	ASTER L1a/L1b Ingest		EGS9, EGS11		Science operations	3 or 4 tapes contains 1 day's orbit.	Three tapes per day, (24 hours of orbit data.) Level 1a data=777scenes 1b data=310 scenes. Total tape 135 GB per day.
12	Verify archive against shipping notice		EGS9, EGS11		Science operations		
13	ASTER L2/L3 Processing		EGS9, EGS11		Science operations	On Demand	
14	Ingest Level 0 to Level 1 PGE's		EGS9		Science operations	As algorithms are changed	
15	ASTER EDS Receipt		EGS9, EGS11		Science operations	12 per day maximum	
16	ASTER L0 Ingest EDS Data Files		EGS9, EGS11		Science operations	Subscription from GSFC DAAC.	EDS processing
17	ASTER L1a Processing of Data Files		EGS9, EGS11		Science operations	12 EDS files per day. 100% processing to	EDS processing.

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation ³	Relevant SFQ Test	Relevant EGS Test ⁴	Relevant Operations Procedure/Test ⁵	Operations Scenario Environment ⁶	Number of Operations/day ⁷	Remarks
						Level 1	
18	Distribute EDS processed files		EGS9, EGS11		Science operations	Maximum 12 per day	
19	Send updated valids to ASTER GDS		EGS9, EGS11		Science operations	As inventory is updated valids are sent to ASTER.	
20	Update valids		EGS9, EGS11		Science operations	Receive valids from ASTER GDS via e-mail	
21	ASTER Catalog Interoperability		EGS9, EGS11		User Services	Can be run from any DAAC. JPL? EDC responsibility is to ingest and update valids.	
22	Ingest DAR Table from D3 Tapes		EGS9, EGS11		Science operations	Once per tape delivery	
23	Distribute DAR files to requester		EGS9, EGS11		User Services	As Required	
24	ASTER DAR Submit		EGS9, EGS11		Science operations	EDC has no server. Must be done from another DAAC. EDC handles Data production request from DAR.	
25	MODIS L2G Compress data Receipt		EGS10, EGS11		Science operations	370 to 456 GB/day via EBnet.	From GSFC. Launch Critical

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation ³	Relevant SFQ Test	Relevant EGS Test ⁴	Relevant Operations Procedure/Test ⁵	Operations Scenario Environment ⁶	Number of Operations/day ⁷	Remarks
26	MODIS L2G De-compress		EGS10, EGS11		Science Operations	Decompress and archive.	
27	MODIS L2 Processing		EGS9, EGS11		Science operations	Some Level 2 processing is required at EDC	
28	MODIS L3 Processing		EGS10, EGS11		Science operations	100% L2G to Level 3 production.	Launch Critical
29	Ancillary Data Ingest/Receipt		EGS10, EGS11		Science operations	NOAA- Atmospheric Correction, MISR- from LaRC. L7 calibration from IAS,	
30	User Queries – Help Desk		EGS9, EGS11		User Services	As required	
31	User Queries – Requests for data		EGS9, EGS11		User Services	As required with peak requests during the day	
32	M&O Report Generation		EGS5, EGS9, EGS11		System Management	Performance analysis metrics – Local M&O	
33	System Administration Activities		EGS5, EGS9, EGS11		System Management	Update COTS	
34	System Administration Activities – Remote SSI&T user		EGS5, EGS9, EGS10, EGS11		System Management		
35	EDAAC Management Report generation		EGS5, EGS9, EGS11		System management	Production history versus plan, time, and	

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation ³	Relevant SFQ Test	Relevant EGS Test ⁴	Relevant Operations Procedure/Test ⁵	Operations Scenario Environment ⁶	Number of Operations/day ⁷	Remarks
						product.	
36	Daily operations status meeting. Shift hand-off.		EGS5, EGS9, EGS11		System management	3 times/day	
37	Error handling in ingest, product generation and archive		EGS5, EGS9, EGS11		Science operations	How does maintenance handle and respond to problems	
38	User access, System security		EGS7		User services	As required to detect hackers, and general security precautions.	

1. The information for this column was taken from the ICD's for ASTER and Landsat and from document 605-CD-002-001, Release B SDPS/CSMS Operations Scenarios for the ECS Project, dated March 1996 and 220-TP-001-001, Operations Scenarios - ECS Release B.0 Impacts, dated February 1997.
2. This column denotes the relevant EGS Test Cases which address this operation for certification.
3. This column will denote the relevant operations procedures which the DAAC's will use.
4. This column denotes the scenario subsections taken from document 605-CD-002-001, Release B SDPS/CSMS Operations Scenarios for the ECS Project, dated March 1996 and 220-TP-001-001, Operations Scenarios - ECS Release B.0 Impacts, dated February 1997.

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

ASTER EDC Operations Test Scenario

#	Task/Activity/Operation	Number of operations/day ¹	24 Hour Operations Period																							
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	System start-up or re-start	Once or as needed																								
2	Generation of daily/weekly operations plans	As needed																								
3	Production Planning, resource planning, (Cross DAAC Plan coordination)	Once or as needed.																								
4	ASTER GDS sends DSN	N/A																								
5	ASTER GDS ships D3 tapes	24 hours of data																								
6.	Level 1 tapes received	N/A																								
7.	DSN checked against tapes																									
8	ASTER L1a/L1b Ingest	Once/day																								
9.	ASTER L1a/L1b Archive	Once/Day																								
10.	ASTER L2/L3 Processing	On Demand																								
11.	ASTER L2/L3 Archive	On Demand																								
12.	ASTER EDS Ingest	As required																								
13.	ASTER EDS L0 Archive	As required																								
14.	ASTER L1a and L1b Processing	As required																								
15.	ASTER L1a and L1b Archive	As Required																								
16.	ASTER Catalog Interoperability	Variable																								
17.	Ingest ASTER GDS valids																									
18.	Submit a Inventory Search																									
19.	Receive Inventory Search Results																									
20.	Submit Integrated Browse Request																									
21.	Receive Integrated Browse Request Results																									
22.	Receive Browse Image for each product																									

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation	Number of operations/day ¹	24 Hour Operations Period																							
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
23.	Submit a Product Order Request																									
24.	Submit a query on Product Status																									
25.	Submit a single granule Browse Request																									
26.	Receive a single granule Browse results message																									
27.	Receive the single granule image																									
28.	Submit a cancel product request																									
29.	Receive Product Cancel result																									
30.	Submit a request for product price estimate information																									
31.	Receive Price estimate results																									
32.	Request an update to a product request.																									
33.	Receive the Product Update Results																									
34.	Order a Product																									
35.	Receive Product Result message																									
36.	Receive Product tape																									
37.	Submit a DAR Acquisition Request	As Required																								
38.	Receive confirmation and XAR ID from ASTER GDS																									
39.	Submit a XAR Modify Request																									
40.	Receive the revised status request from ASTER GDS																									
41.	Submit a XAR Status Search																									

**Tasks and/or Operational Activities at EDC DAAC during a day
(Preliminary)**

#	Task/Activity/Operation	Number of operations/day ¹	24 Hour Operations Period																							
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
42.	Receive XAR Status Results																									
43.	Submit XAR Contents Request																									
44.	Receive XAR Contents retrieval results																									
45.	Submit Sub-XAR status search request																									
46.	Receive Sub-XAR status search Results																									